

WHAT IS CLAIMED IS:

1. An octopeptide peptide comprising a carboxy-terminal sequence of R1 Lys-X1-Val (SEQ. ID NO. 1) where X1 is Phe or DPhe and R1 is His-Phe-Arg-Trp-Gly.
2. An octopeptide peptide comprising His-DNle-Arg-Trp-Gly R2(SEQ. ID NO. 2), where R2
5 is Lys-Pro-Val.
3. An octomeric peptide comprising the sequence His-DNle-Arg-Trp-Gly-Lys-X1-Val. (SEQ. ID NO. 3) wherein X1 is Phe or DPhe.
4. An octomeric peptide comprising R1-Lys-X3-Val (SEQ. ID NO. 4) sequence, wherein Val
10 is the carboxy-terminal amino acid and X3 is an amino acid having a non-polar functional group.
5. The octomeric peptide of claim 4 wherein the amino acid having a non-polar functional group may be selected from the group consisting of Gly, Ala, Val, Leu, Ile, Met, Phe, Trp.
6. The octomeric peptide of claim 4 wherein the amino acid having a positively charged functional group may be selected from the group consisting of Lys, Arg.
- 15 7. An octomeric peptide comprising R1-Lys-Pro-X4 (SEQ. ID NO. 5) where X4 is an amino acid having a hydrophobic functional group or a non-polar functional group.
8. The octomeric peptide of claim 7 wherein the amino acid having a hydrophobic functional group is selected from the group consisting of Ala, Leu, Ile, Met, Pro.
9. The octomeric peptide of claim 7 wherein the amino acid having a non polar functional
20 group is selected from the group consisting of Gly, Ala, Pro, Leu, Ile, Met, Phe, Trp.

10. An octomeric peptide comprising R1-X5-Pro-Val (SEQ. ID NO. 6) wherein X5 is an amino acid with a hydrophobic functional group.
11. The octomeric peptide of claim 10 wherein the amino acid having a hydrophobic functional group is selected from the group consisting of Ala, Leu, Ile, Met, Pro.
- 5 12. An octomeric peptide comprising R1-Lys-X6-Val (SEQ. ID NO. 7) wherein X6 is an amino acid having a non-polar or positively charged functional group.
13. The octomeric peptide of claim 12 wherein the amino acid having a non-polar amino functional group is selected from the group consisting of Gly, Ala, Val, Leu, Ile, Met, Phe, Trp.
- 10 14. The octomeric peptide of claim 12 wherein the amino acid having a positively charged functional group is selected from the group consisting of Lys, Arg.
15. An octomeric peptide comprising R1-Lys-X7-Val (SEQ. ID NO. 8) wherein X7 is an amino acid having a negatively charged functional group.
- 15 16. The peptide of claim 15 wherein the amino acid having a negatively charged functional group is selected from the group consisting of Asp, Glu.
17. An octomeric peptide comprising an amino acid sequence His-DNle-Arg-Trp-Gly-Lys-X7-Val (SEQ. ID NO. 9) wherein X1 is Phe or DPhe.
18. An octomeric peptide comprising R1-Lys-X8-Val (SEQ. ID NO. 11) wherein X8 is an amino acid having an uncharged polar functional group.

19. The octomeric peptide of claim 19 wherein the amino acid having an uncharged polar functional group is selected from the group consisting of Asn, Gln, Ser, Thr.
20. An octomeric peptide comprising the sequence His-DNle-Arg-Trp-Gly-Lys-X8-Val (SEQ. ID NO. 12).